IN THE CLAIMS

1. (Currently Amended) A medium for measuring the efficacy of a tumor therapy on single cell suspensions, comprising the essential amino acids, vitamins, salts and carbon donors, characterized in that the medium comprises from 0.1 to 1 mM buffer of pH 7.0 to 7.4, ~~5 to 20%~~ 8 to 12% by volume fetal calf serum, 4-6 g/l glucose and 2 to 5 mM glutamine as carbon source, wherein the medium does not contain carbon sources other than glucose and glutamine.

2. (Previously Presented) The medium as claimed in Claim 1, further comprises phosphate buffer as buffer.

3. (Canceled)

4. (Previously Presented) The medium as claimed in Claim 1, wherein the medium comprises 5 g/l glucose, 2 mM glutamine and 10% by volume fetal calf serum.

5. (Currently Amended) The medium as claimed in Claim 2, [[,]] wherein the medium comprises 5 g/l glucose, 2 mM glutamine and 10% by volume fetal calf serum.

6. (Currently Amended) A method for measuring the efficacy of a tumor therapy on single cell suspensions of tumor cells by determining the acid formation in a medium in the presence and in the absence of a substance having cytostatic or cytotoxic activity, [[,]] wherein the measurement is carried out in a medium as claimed in Claim 1.

7. (Currently Amended) The method as claimed in Claim 6, [[,]] wherein the measurement is carried out by means of a pH electrode on which the single cell suspension is immobilized, with use of a flow cell through which the inventive medium flows.

8. (Currently Amended) The method as claimed in Claim 6 or 7, [[,]] wherein the medium is pumped through the flow cell until a constant pH has been set up, and the change in the pH with the medium stationary is then measured by measuring at intervals of 1.5 to 2.5 minutes, the medium is thereafter removed from the measurement cell, and the measurement cycle is started from the beginning again until the pH change has been determined over a period of 14 to 24 hours.

9. (Canceled)

10. (Currently Amended) The method as claimed in Claim [[9,]] 8, wherein the method is carried out in a multichannel instrument, with one channel being charged by a medium without cytostatic and the other channels being charged with the medium containing the cytostatic.